

## **PROFILED RAIL RODLESS ELECTRIC ACTUATORS**

The MXE-P rodless electric screw-drive actuator is designed for applications requiring moderate to heavy load carrying and guidance. The MXE-P actuator features a profiled rail system with recirculating ball linear guides for optimal performance.

# **MXE-P**

#### **RECIRCULATING BALL BEARINGS**

·Recirculating design with a grease pocket between ball elements to reduce friction, noise, maintenance and extend actuator life



•High speed, high precision operation, with low heat generation and large permissible moment loads



Clear anodized extrusion design is optimized for rigidity and strength

#### **YOUR MOTOR HERE**

•Wide variety of standard motor mounts machined to your motor of choice. Includes mounting hardware and couplers

 Inline or reverse parallel (foldback) motor mounting options

### **STAINLESS STEEL DUST BAND**

Durable, flexible, fatigue and corrosion resistant stainless steel band is magnetically retained. The dust band keeps contaminants from entering the actuator interior, protecting components for reduced maintenance and increased uptime

#### **MULTIPLE SCREW TECHNOLOGIES**

#### YOU CAN CHOOSE:

•Solid nuts of bronze or engineered resins offer quiet performance at the lowest cost; anti-backlash available

•Ball screws offer positioning accuracy and repeatability with longer life; low-backlash available

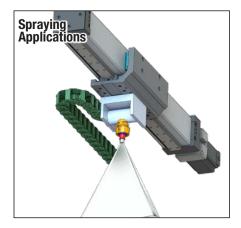


#### **Available Options:**

Mounting Mounting Plates; Tube Clamps

Carrier Auxiliary Carrier

Sensors Reed, Solid State PNP or NPN, flush mount, drop in installation



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## **Applications:**

- Adhesive Dispensing
- Applying
- Camera Positioning
- Cutting
- High Speed Flying Cut Off
- InspectingMaterial Cutting
- Multi Axis
- Parts Transfer
- Pick & Place

- Product Handling
- Slitting
- Stacking
- Storage, Retrieval
- Sorting
- X-Y Gantry, Multi Axis
- Test Functions
- Test Stations
- and many more



## **PROFILED RAIL RODLESS ELECTRIC ACTUATORS**

#### **STANDARD CARRIER**

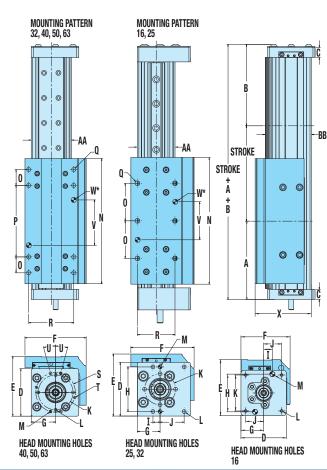
MAX. BENDING MOMENTS						MAX. LOAD			MAX. THRUST				
Mx		My		Mz		Fy		Fz		Solid Nut		Ball Screw	
N-m	in-lbs	N-m	in-lbs	N-m	in-lbs	N	lb	N	lb	N	lbf	Ν	lbf
4.5	39	38.3	339	38.3	339	966	217	966	217	200	45	—	—
14.3	126	56.7	502	42.6	377	1,996	449	1,996	449	756	170	578	130
25.6	226	152	1,344	152	1,344	2,531	569	2,531	569	756	170	578	130
68.2	604	216	1,913	216	1,913	3,274	736	3,274	736	1,334	300	3,559	800
91.7	811	394	3,483	394	3,483	4,510	1,014	4,510	1,014	1,335	300	12,010	2,700
115	1,019	603	5,339	603	5,339	5,745	1,292	5,745	1,292	1,779	400	19,127	4,300
	N-m 4.5 14.3 25.6 68.2 91.7	Mxm         in-lbs           4.5         39           14.3         126           25.6         226           68.2         604           91.7         811	Mx         M           N-m         in-lbs         N-m           4.5         39         38.3           14.3         126         56.7           25.6         226         152           68.2         604         216           91.7         811         394	Mrm         in-lbs         N-m         in-lbs           4.5         39         38.3         339           14.3         126         56.7         502           25.6         226         152         1,344           68.2         604         216         1,913           91.7         811         394         3,483	Mx         My         My           N-m         in-lbs         N-m         in-lbs         N-m           4.5         39         38.3         339         38.3           14.3         126         56.7         502         42.6           25.6         226         152         1,344         152           68.2         604         216         1,913         216           91.7         811         394         3,483         394	Mx         My         Mz           N-m         in-lbs         N-m         in-lbs         N-m         in-lbs           4.5         39         38.3         339         38.3         339           14.3         126         56.7         502         42.6         377           25.6         226         152         1,344         152         1,344           68.2         604         216         1,913         216         1,913           91.7         811         394         3,483         394         3,483	N-m         in-lbs         N-m         in-lbs         N-m         in-lbs         N-m         in-lbs         N           4.5         39         38.3         339         38.3         339         966           14.3         126         56.7         502         42.6         377         1,996           25.6         226         152         1,344         152         1,344         2,531           68.2         604         216         1,913         216         1,913         3,274           91.7         811         394         3,483         394         3,483         3483         4,510	Image         Image <t< td=""><td>N-m         in-lbs         N-m         in-lbs         N-m         in-lbs         N-m         in-lbs         N         Ib         N           4.5         39         38.3         339         38.3         339         966         217         966           14.3         126         56.7         502         42.6         377         1,996         449         1,996           25.6         226         152         1,344         152         1,344         2,531         569         2,531           68.2         604         216         1,913         216         1,913         3,274         736         3,274           91.7         811         394         3,483         394         3,483         4,510         1,014         4,510</td><td>Image         Image         <th< td=""><td><math>M_{m}</math><math>M_{m}</math><math>in-lbs</math><math>N-m</math><math>in-lbs</math><math>N-m</math><math>in-lbs</math><math>N</math><math>Ib</math><math>N</math><math>Ib</math><math>N</math><math>Ib</math><math>N</math><math>Ib</math><math>N</math>4.53938.333938.333996621796621720014.312656.750242.63771,9964491,99644975625.62261521,3441521,3442,5315692,53156975668.26042161,9132161,9133,2747363,2747361,33491.78113943,4833943,4834,5101,0144,5101,0141,335</td><td>N-m <math>in-lbs</math> <math>N-m</math> <math>in-lbs</math> <math>N-m</math> <math>in-lbs</math> <math>N</math> <math>ib</math> <math>ib</math> <math>N</math> <math>ib</math> <math>ib</math> <math>N</math> <math>ib</math> <math>ib</math> <math>ib</math> <math>ib</math> <math>ib</math> <math>ib</math> <math>ib</math></td><td>N-m <math>in-lbs</math> <math>N-m</math> <math>in-lbs</math> <math>N-m</math> <math>in-lbs</math> <math>N</math> <math>ib</math> <math>N</math> <math>Ib</math> <math>N</math> <math>Ib</math> <math>N</math> <math>Ibf</math> <math>N</math> <math>4.5</math> <math>39</math> <math>38.3</math> <math>339</math> <math>38.3</math> <math>339</math> <math>966</math> <math>217</math> <math>966</math> <math>217</math> <math>200</math> <math>455</math> <math></math> <math>14.3</math> <math>126</math> <math>56.7</math> <math>502</math> <math>42.6</math> <math>377</math> <math>1,996</math> <math>449</math> <math>1,996</math> <math>449</math> <math>756</math> <math>170</math> <math>578</math> <math>25.6</math> <math>226</math> <math>152</math> <math>1,344</math> <math>152</math> <math>1,344</math> <math>2,531</math> <math>569</math> <math>2,531</math> <math>569</math> <math>756</math> <math>170</math> <math>578</math> <math>68.2</math> <math>604</math> <math>216</math> <math>1,913</math> <math>3,274</math> <math>736</math> <math>3,274</math> <math>736</math> <math>1,334</math> <math>300</math> <math>3,559</math> <math>91.7</math> <math>811</math> <math>3,483</math> <math>3,483</math>&lt;</td></th<></td></t<>	N-m         in-lbs         N-m         in-lbs         N-m         in-lbs         N-m         in-lbs         N         Ib         N           4.5         39         38.3         339         38.3         339         966         217         966           14.3         126         56.7         502         42.6         377         1,996         449         1,996           25.6         226         152         1,344         152         1,344         2,531         569         2,531           68.2         604         216         1,913         216         1,913         3,274         736         3,274           91.7         811         394         3,483         394         3,483         4,510         1,014         4,510	Image         Image <th< td=""><td><math>M_{m}</math><math>M_{m}</math><math>in-lbs</math><math>N-m</math><math>in-lbs</math><math>N-m</math><math>in-lbs</math><math>N</math><math>Ib</math><math>N</math><math>Ib</math><math>N</math><math>Ib</math><math>N</math><math>Ib</math><math>N</math>4.53938.333938.333996621796621720014.312656.750242.63771,9964491,99644975625.62261521,3441521,3442,5315692,53156975668.26042161,9132161,9133,2747363,2747361,33491.78113943,4833943,4834,5101,0144,5101,0141,335</td><td>N-m <math>in-lbs</math> <math>N-m</math> <math>in-lbs</math> <math>N-m</math> <math>in-lbs</math> <math>N</math> <math>ib</math> <math>ib</math> <math>N</math> <math>ib</math> <math>ib</math> <math>N</math> <math>ib</math> <math>ib</math> <math>ib</math> <math>ib</math> <math>ib</math> <math>ib</math> <math>ib</math></td><td>N-m <math>in-lbs</math> <math>N-m</math> <math>in-lbs</math> <math>N-m</math> <math>in-lbs</math> <math>N</math> <math>ib</math> <math>N</math> <math>Ib</math> <math>N</math> <math>Ib</math> <math>N</math> <math>Ibf</math> <math>N</math> <math>4.5</math> <math>39</math> <math>38.3</math> <math>339</math> <math>38.3</math> <math>339</math> <math>966</math> <math>217</math> <math>966</math> <math>217</math> <math>200</math> <math>455</math> <math></math> <math>14.3</math> <math>126</math> <math>56.7</math> <math>502</math> <math>42.6</math> <math>377</math> <math>1,996</math> <math>449</math> <math>1,996</math> <math>449</math> <math>756</math> <math>170</math> <math>578</math> <math>25.6</math> <math>226</math> <math>152</math> <math>1,344</math> <math>152</math> <math>1,344</math> <math>2,531</math> <math>569</math> <math>2,531</math> <math>569</math> <math>756</math> <math>170</math> <math>578</math> <math>68.2</math> <math>604</math> <math>216</math> <math>1,913</math> <math>3,274</math> <math>736</math> <math>3,274</math> <math>736</math> <math>1,334</math> <math>300</math> <math>3,559</math> <math>91.7</math> <math>811</math> <math>3,483</math> <math>3,483</math>&lt;</td></th<>	$M_{m}$ $M_{m}$ $in-lbs$ $N-m$ $in-lbs$ $N-m$ $in-lbs$ $N$ $Ib$ $N$ $Ib$ $N$ $Ib$ $N$ $Ib$ $N$ 4.53938.333938.333996621796621720014.312656.750242.63771,9964491,99644975625.62261521,3441521,3442,5315692,53156975668.26042161,9132161,9133,2747363,2747361,33491.78113943,4833943,4834,5101,0144,5101,0141,335	N-m $in-lbs$ $N-m$ $in-lbs$ $N-m$ $in-lbs$ $N$ $ib$ $ib$ $N$ $ib$ $ib$ $N$ $ib$ $ib$ $ib$ $ib$ $ib$ $ib$ $ib$	N-m $in-lbs$ $N-m$ $in-lbs$ $N-m$ $in-lbs$ $N$ $ib$ $N$ $Ib$ $N$ $Ib$ $N$ $Ibf$ $N$ $4.5$ $39$ $38.3$ $339$ $38.3$ $339$ $966$ $217$ $966$ $217$ $200$ $455$ $$ $14.3$ $126$ $56.7$ $502$ $42.6$ $377$ $1,996$ $449$ $1,996$ $449$ $756$ $170$ $578$ $25.6$ $226$ $152$ $1,344$ $152$ $1,344$ $2,531$ $569$ $2,531$ $569$ $756$ $170$ $578$ $68.2$ $604$ $216$ $1,913$ $3,274$ $736$ $3,274$ $736$ $1,334$ $300$ $3,559$ $91.7$ $811$ $3,483$ $3,483$ <



NOTE: Auxiliary Carrier option nearly doubles maximum bending moments and load, see MXE brochure 8300-4000 for complete details.

#### Dimensions

	1011010	110					
	MXE16	MXE25	MXE32	MXE40	MXE50	MXE63	
Α	69.1	96.3	100.9	125.2	141.7	211.3	
В	72.1	100.6	105.1	130.0	147.8	216.2	
С	12.7	23.4	12.7	16.0	33.3	47.8	
D	42.2	57.2	55.4	75.9	88.0	110.0	
E	52.1	66.1	77.4	95.7	124.5	145.0	
F	45.7	67.4	82.6	97.8	117.3	143.5	
G	21.1	24.1	30.7	39.1	46.2	58.4	
Н	35.1	47.5	47.5	-	-	-	
Ι	8.1	7.6	7.6	-	-	-	
J	16.8	25.7	25.7	-	-	-	
K	33.3	Ø33.0	Ø33.0	Ø55.6	Ø68.3	Ø55.6	
L	M3x0.5 (4)	M5x0.8 (8)	M5x0.8 (8)	M6x1.0 (4)	M6x1.0 (4)	M6x1.0 (4)	
М	Ø4.78 (2)	Ø4.01 (2)	Ø4.01 (2)	Ø4.80 (2)	Ø4.78 (2)	Ø4.78 (2)	
Ν	110.0	135.0	170.0	200	215.9	207.6	
0	40.0	40.0	27.2	25.4	25.4	39.9	
Р	-	-	85.6	114.3	69.9	130.0	
Q	M4x0.7 (6)	M6x1.0 (6)	M8x1.25 (8)	M8x1.25 (8)	M8x1.25 (8)	M10x1.5 (8)	
R	28.00	40.00	50.00	72.00	79.38	98.30	
S	-	-	-	Ø63.2	Ø76.5	Ø76.5	
Т	-	-	-	M5x0.8 (4)	M5x0.8 (4)	M5x0.8 (4)	
U	-	-	-	15°	15°	15°	
V	40.00	40.00	45.00	63.50	38.10	65.00	
W*	Ø4.045 / 4.020 ↓ 6.35	Ø6.045 / 6.020 ↓ 6.35	Ø8.045 /8.020 ↓9.53	Ø8.045 /8.020 ↓12.70	Ø8.045 /8.020 ↓12.70	Ø10.045 /10.020 ↓12.70	
Х	46.0	58.5	77.4	89.7	119.7	140.0	
AA	30.00	40.00	54.00	64.00	78.74	100.00	
BB	35.50	48.60	62.87	73.50	93.74	115.00	
<u> </u>					1000 (		



COMPANY WITH QUALITY SYSTEM CERTIFIED BY DNV GL = ISO 9001 = Certified site: Hamel, MN

Dimensions in millimeters  $\bullet$  See  $\underline{\text{MXE brochure 8300-4000}}$  for complete dimension details



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